

Title (en)

Interference reduction method in the base station

Title (de)

Interferenzreduktionsverfahren in der Basisstation

Title (fr)

Procédé de réduction d'interférence dans une station de base

Publication

**EP 2547162 B1 20151028 (EN)**

Application

**EP 12188035 A 20050218**

Priority

- EP 12188035 A 20050218
- EP 05710389 A 20050218
- JP 2005002556 W 20050218

Abstract (en)

[origin: EP1850612A1] A base station communicates with mobile terminals existing within a subordinate cell, and in addition executes control to reduce interference from mobile terminals existing within adjacent cells. The base station measures the total interference power received from mobile terminals in all adjacent cells, and if the total interference power is greater than a preset value, issues a request to the base stations of all adjacent cells to reduce interference. The base station which has received the interference reduction request discriminates mobile terminals which impart interference to the base station which is the source of the interference reduction request, and reduces interference by either temporarily lowering the uplink data transmission rate or temporarily halting uplink data transmission for such mobile terminals.

IPC 8 full level

**H04W 28/18** (2009.01); **H04W 72/12** (2009.01); **H04W 24/02** (2009.01); **H04W 52/24** (2009.01); **H04W 72/08** (2009.01); **H04W 92/20** (2009.01)

CPC (source: EP US)

**H04W 72/542** (2023.01 - EP US); **H04W 52/243** (2013.01 - EP US); **H04W 52/247** (2013.01 - EP US); **H04W 72/20** (2023.01 - EP US); **H04W 72/23** (2023.01 - EP US); **H04W 92/20** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1850612 A1 20071031**; **EP 1850612 A4 20100825**; **EP 1850612 B1 20160217**; CN 101116365 A 20080130; EP 2222127 A1 20100825; EP 2222127 B1 20120912; EP 2547162 A1 20130116; EP 2547162 B1 20151028; JP 4640855 B2 20110302; JP WO2006087797 A1 20080703; US 2007280170 A1 20071206; US 2010216497 A1 20100826; US 9014735 B2 20150421; US 9161369 B2 20151013; WO 2006087797 A1 20060824

DOCDB simple family (application)

**EP 05710389 A 20050218**; CN 200580047800 A 20050218; EP 10161431 A 20050218; EP 12188035 A 20050218; JP 2005002556 W 20050218; JP 2007503536 A 20050218; US 77407810 A 20100505; US 88926307 A 20070810